



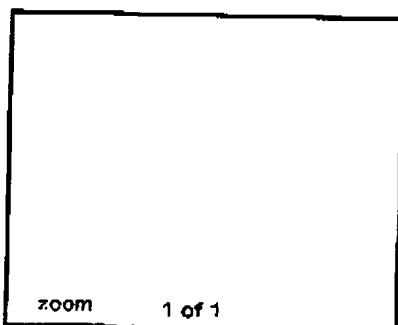
Home

EXHIBIT A

[Register for additional site benefits.](#) | [Login](#) | [Your Profile](#) | [Order Center](#) | [Search](#) | [Support](#) | [Feedback](#)
 [Product Name or No.](#)

90637 Micro particles based on melamine resin

Fluka size: 2 μ m



zoom 1 of 1

Synonym

Melamine-formaldehyde resin

MDL number

MFCD00197912

[Related Information](#)
[MSDS](#)

[Certificate of Analysis](#)

[Enter Lot No.](#)

[More Information](#)

[Links](#)

[Product Detail Page](#)

[Links](#)

[Similar Products](#)

[Related Categories](#)

[Page Options](#)

[Print Preview](#)

[Bulk Quote](#)

[Ask A Scientist](#)

[Email Page](#)

[Last 5 Products View](#)

90637 (Fluka)

Descriptions

Analysis Note

For every lot, exact values of particle size and standard deviation are determined with an accuracy of 0.01 μ m using a Coulter Multisizer.

Density: 1.61 g/cm³

Heat resistance <300 °C

Chemical resistance: acids, bases, organic solvents.

Monodispers melamin resin particles are characterized by high uniformity and narrow size distribution. They carry functional methylol groups, which can be used for covalent coupling of biological active compounds. Modifications by insertion of additional functional groups (e.g. carboxyl or hydroxy groups) are possible and can be made on request (contact your local representative).

Additional advantages of melamin resin particles are:

- • hydrophilic surfaces
 - high degree of cross linking and high pressure resistance
 - long term stability in aqueous media (freezing and thawing does not damage them)
 - lyophilization and resuspension in aqueous media does not damage them (powders are available on request)
 - no swelling in organic solvents

Other Notes

Template for preparing hollow spheres by self-organized deposition of nanoparticles. The MF core dissolves at a pH below 1.6 1

Properties

form

suspension (aqueous)

concentration

10% (solids)

particle size

2 μ m std dev <0.1 μ m, coeff var <3%

References

Cited References 1. F. Caruso et al. *Science* **282**, 1111, (1998) abstract

Safety

Safety Statements 24/25

WGK Germany 3

F 10

Related Categories

... Photoluminescent Polymers > Light Emitting Dopant Functionalized Polymers

Use of this web site constitutes your acceptance of the Site Use Terms

[Privacy](#) | [Terms and conditions of sale](#) | [Business Development](#)

© 2006 Sigma-Aldrich Co. Reproduction forbidden without permission.
Sigma-Aldrich brand products are sold exclusively through Sigma-Aldrich, Inc. Best viewed in IE6 or higher